



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)**Complete if Known**

Application Number	10/804,513		
Filing Date	March 19, 2004		
First Named Inventor	Zhang, et al.		
Art Unit	1751		
Examiner Name			
Attorney Docket Number	06293P3 USA		
Sheet	1	of	1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
<i>M</i>		JP2004184648A	07-02-2004	Kobayashi Masakazu		✓
<i>M</i>		WO 2004/051379	06-17-2004	Clariant Int'l Ltd.		

Examiner Signature		Date Considered	10/11/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number			
		Filing Date			
		First Named Inventor	<b>Peng Zhang, et al.</b>		
		Art Unit			
		Examiner Name			
Sheet	<b>1</b>	of	<b>2</b>	Attorney Docket Number	<b>06293P3 USA</b>

U. S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
		US- 2002/0055660 A1	5/9/2002	K. R. Lassila, et al.	
		US- 2002/0115022 A1	8/22/2002	S. A. Messick, et al.	
		US- 5,127,571	7/7/1992	B. L. Gutierrez, et al.	
		US- 5,948,464	9/7/1999	F. M. Delnick	
		US- 5,977,041	11/2/1999	K. Honda	
		US- 6,152,148	11/28/2000	A. M. George, et al.	
		US- 6,313,182 B1	11/6/2001	K. R. Lassila, et al.	
		US- 6,670,107 B2	12/30/2003	J. F. Lachowski	
		US-			
		US-			

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 1 115 035 A1		Europe		✓
		JP 95142349A		Japan		✓
		JP 96008163A		Japan		✓
		WO 00/03306		World		✓
		WO 02/23598 A2		World		✓
		WO 87/03387		World		✓
		WO 99/15609		World		✓
		WO 99/60083		World		✓
		WO 99/60448		World		✓

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		First Named Inventor	<b>Peng Zhang, et al.</b>		
		Art Unit			
		Examiner Name			
Sheet	<b>2</b>	of	<b>2</b>	Attorney Docket Number	<b>06293P3 USA</b>

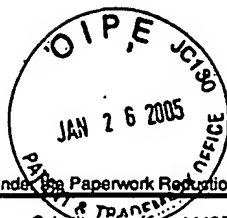
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		W. D. Domke, et al., "Pattern Collapse in High Aspect Ratio DUV and 193nm Resists," Proc. SPIE-Int. Soc. Opt. Eng. 3999, 313-321, 2000.	✓
		C. Cheung, et al., "A Study of a Single Closed Contact for 0.18 Micron Photolithography Process," Proc. SPIE-Int. Soc. Opt. Eng. 3998, 738-741, 2000.	✓
		S. Hien, et al., "Collapse behavior of single layer 193 and 157 nm resists: Use of surfactants in the rinse to realize the sub 130 nm nodes," Infineon Technologies, International SEMATECH, Center for Nano Technology, University of Wisconsin.	✓
		T. Tanaka, et al., "Mechanism of Resist Pattern Collapse During Development Process," Jpn. J. Appl. Phys. Vol. 32 (1993), pp. 6059-6064, Part 1, No. 12B.	✓
		P. Zhang, et al., "Surface Conditioning Solutions to Reduce Resist Line Roughness," Air Products and Chemicals, Inc., SPIE International Symposium Microlithography, February 22-27, 2004, Santa Clara, CA.	✓

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/804,513
				Filing Date	March 19, 2004
				First Named Inventor	Zhang, et al.
				Art Unit	1751
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	06293P3 USA

U. S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
<i>[Signature]</i>		US- 6,261,745	07-17-2001	Komano Hiroshi, et al.	
<i>[Signature]</i>		US- 5,977,041	11-02-1999	Honda Kenji	
<i>[Signature]</i>		US- 5,756,267	05-26-1998	Kobayashi Kesanao, et al.	
<i>[Signature]</i>		US- 5,650,543	07-22-1997	Medina Steven Wayne	
<i>[Signature]</i>		US- 4,833,067	05-23-1989	Asaumi Shingo, et al.	
<i>[Signature]</i>		US- 2002/016272	02-07-2002	Kakizawa Masahiko, et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
<i>[Signature]</i>		EP 1 115 035 A	07-11-2001	Air Products and Chemicals, Inc.		✓
<i>[Signature]</i>		EP 1 389 745 A	02-18-2004	Air Products and Chemicals, Inc.		✓

Examiner Signature	<i>[Signature]</i>	Date Considered	10/11/06
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		Number-Kind Code <sup>2</sup> (if known)			
<i>W</i>		US- 6,261,745	07/17/2001	Tanabe, et al.	
<i>W</i>		US- 2002/016272	02/07/2002	Kakizawa, et al.	
		US-			
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<i>W</i>		EP 1 389 746 A2	02/18/2004	Zhang, et al.		✓
<i>W</i>		EP 1 389 745 A1	02/18/2004	Zhang, et al.		✓
<i>W</i>		EP 1 115 033 A1	07/11/2001	Lassila, et al.		✓
<i>W</i>		EP 1 245 650 A2	10/02/2002	Meier, et al.		✓
<i>W</i>		EP 1 115 035 A1	07/11/2001	Lassila, et al.		✓
<i>W</i>		EP 0 671 662 A1	09/13/2005	Suzuki		✓
		01088547 (abstract only)	04/03/1989	Mitsubishi		✓

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Sheet	2		2	Attorney Docket Number	06293P3 USA

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		TOSHIHIKO TANAKA, et al.; "Mechanism of Resist Pattern Collapse during Development Process"; Japanese Journal of Applied Physics; December 1993; page 6061, column 2, paragraph 2; Vol. 32; JP Physical Society of Japan, Tokyo	✓

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